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On a multi-parametric generalization of the uniform zero-two law in L^1 -spaces (Article)

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Abstract

Following an idea of Ornstein and Sucheston, Foguel proved the so-called uniform “zero-two” law: let $T: L^1(X, F, \mu) \rightarrow L^1(X, F, \mu)$ be a positive contraction. If for some $m \in \mathbb{N} \setminus \{0\}$ one has $\|T^{m+1} - T^m\| < 2$, then (formula presented) There are many papers devoted to generalizations of this law. In the present paper we provide a multi-parametric generalization of the uniform zero-two law for L^1 -contractions. © 2015 Korean Mathematical Society.

Author keywords

Multi parametric Positive contraction “Zero-two” law


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